

# MAJOR IN AGRICULTURAL BIOLOGY, ENTOMOLOGY CONCENTRATION

**To prepare for first semester:** The curriculum for the Agricultural Biology major assumes students enter college prepared to take calculus. Entering students who are not prepared to take calculus will need to fulfill pre-calculus requirements in the first semester. Those pre-calculus requirements are listed as benchmark courses in Freshman Semester 1 below.

## Major Completion Map

**Distinctive Requirements for Degree Program:** Each course used to satisfy requirements of the major requires a minimum grade of 'C' (2.000).

### Freshman

Semester 1		Critical	Recommended	AUCC	Credits
AB 120	Agricultural Biology–Freshman Orientation	X			1
AREC 202	Agricultural and Resource Economics (GT-SS1)		X	3C	3
CO 150	College Composition (GT-CO2)	X		1A	3
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )					3
Electives					3
MATH 117, MATH 118, MATH 124, MATH 125 may be necessary for some students to fill pre-calculus requirements.					X

#### Total Credits

13

Semester 2		Critical	Recommended	AUCC	Credits
AB 130	Working with Agricultural Biology Data	X			1
CHEM 107	Fundamentals of Chemistry (GT-SC2)	X		3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	X		3A	1
Select one group from the following:					8
Group A:					
LIFE 102	Attributes of Living Systems (GT-SC1)	X		3A	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	X		3A	
Group B:					
BZ 110	Principles of Animal Biology (GT-SC2)	X		3A	
BZ 111	Animal Biology Laboratory (GT-SC1)	X		3A	
BZ 120	Principles of Plant Biology (GT-SC1)	X		3A	
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )					3

#### Total Credits

17

### Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
BSPM 302	Applied and General Entomology	X			2
MATH 155	Calculus for Biological Scientists I (GT-MA1)	X		1B	4
SPCM 200	Public Speaking	X			3
Select one course from the following:					1-2
BSPM 303A	Entomology Laboratory: General				
BSPM 303B	Entomology Laboratory: Horticultural				
BSPM 303C	Entomology Laboratory: Agricultural				
Select one course from the following:					3
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
LB 300	Specialized Professional Writing			2	
Select LAND 220/LIFE 220 Semester 3 if LIFE 320 will not be taken Semester 4:					X
					0-3

LAND 220/ LIFE 220	Fundamentals of Ecology (GT-SC2)			3A	
<b>Total Credits</b>					<b>13-14</b>
<b>Semester 4</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
AB 230	Becoming an Agricultural Biology Professional	X			1
CHEM 245	Fundamentals of Organic Chemistry	X			4
CHEM 246	Fundamentals of Organic Chemistry Laboratory	X			1
Select one course from the following:		X			3
AGRI 116/ IE 116	Plants and Civilizations (GT-SS3)			1C	
HORT 171/ SOCR 171	Environmental Issues in Agriculture (GT-SS3)			1C	
SOC 220	Environment, Food, and Social Justice (GT-SS3)			1C	
Select LIFE 320 Semester 4 if LAND 220/LIFE 220 was not taken Semester 3:					0-3
LIFE 320	Ecology				
Select one course from the following:		X			3
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
<b>Total Credits</b>					<b>15</b>
<b>Junior</b>					
<b>Semester 5</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BSPM 308	Ecology and Management of Weeds	X			3
BZ 220	Introduction to Evolution	X			3
BZ 350	Molecular and General Genetics	X			4
SOCR 240	Introductory Soil Science	X			4
<b>Total Credits</b>					<b>14</b>
<b>Semester 6</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
AB 330	Applications in Agricultural Biology I	X		4A,4B,4C	2
BSPM 361	Elements of Plant Pathology	X			3
BSPM 487	Internship	X			3
Entomology Electives (see list on Concentration Requirements Tab)					3
Electives					5
<b>Total Credits</b>					<b>16</b>
<b>Senior</b>					
<b>Semester 7</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
AB 430	Applications in Agricultural Biology II	X		4A,4B,4C	3
Entomology Electives (see list on Concentration Requirements Tab)					3
Electives					9
<b>Total Credits</b>					<b>15</b>
<b>Semester 8</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
AB 410	Understanding Pesticides	X			3
AB 451	Integrated Pest Management	X			3
AGED 210	History of Agriculture in the United States			3D	3
Entomology Electives (see list on Concentration Requirements Tab)					6
Electives					1-2
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.					
<b>Total Credits</b>					<b>16-17</b>
<b>Program Total Credits:</b>					<b>120</b>